

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE <b>DE-AC07-99ID13727</b>	PAGE 1 OF 5 PAGES
2. AMENDMENT/MODIFICATION NO. <b>M172</b>	3. EFFECTIVE DATE <b>See Block 16C</b>	4. REQUISITION/PURCHASE REQ. NO. <b>NOPR</b>	5. PROJECT NO. (If applicable)	
6. ISSUED BY <b>U.S. Department of Energy Idaho Operations Office (DOE-ID) Contract Management Division 1955 Fremont Avenue, MS 1240 Idaho Falls, ID 83415</b>		7. ADMINISTERED BY (If other than Item 6) <b>Maria M. Mitchell, Contracting Officer (208) 526-8600</b>		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code)  <b>Advanced Mixed Waste Treatment Project Bechtel BWXT Idaho, LLC 850 Energy Drive, Suite 200 Idaho Falls, ID 83401-2700</b>			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO.  <b>DE-AC07-99ID13727</b>	
			10B. DATED (SEE ITEM 13) <b>June 1, 1999</b>	
CODE	FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. ACCOUNTING AND APPROPRIATION DATA (If required)**

**N/A**

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS;  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority):  THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE-NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (Such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<b>X</b>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>I.23 DEAR 970.5204-11 Changes (APR 1984)</b>
	D. OTHER (Specify type of modification and authority):


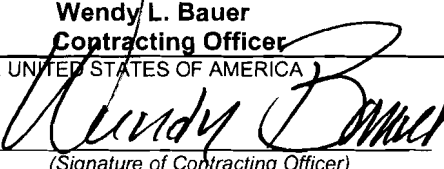
E. IMPORTANT: Contractor \_\_\_\_ is not, **X** is required to sign this document and return **[3]** copies to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)**

**The purpose of this modification is to increase the estimated cost in Section B.3, Estimated Cost and Available Fee for AMWTP work, for the approved baseline change.**

(See attached page)

Except as provided herein, all terms and conditions of the document referenced in Items 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) <b>P. James Simonds Acquisition Services Manager</b>		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Wendy L. Bauer Contracting Officer</b>	
15B. CONTRACTOR/OFFEROR  BY  (signature of person authorized to sign)	15C. DATE SIGNED <b>10/14/08</b>	16B. UNITED STATES OF AMERICA  BY  (Signature of Contracting Officer)	16C. DATE SIGNED <b>11/3/08</b>

The contract is modified as follows:

### **B.3 ESTIMATED COST AND AVAILABLE FEE for AMWTP**

For the period May 1, 2005, through September 30, 2009, the total estimated cost is increased \$2,873,809 from \$573,234,097 to \$576,107,906; and the total available fee is increased \$226,191, from \$62,792,500 to \$63,018,691.

BBWI shall continue to segregate the cost for the AMWTP work separate from the Idaho Completion Project costs.

The increase in the total estimated cost includes the following items settled in accordance with Section I clauses I.23 DEAR 970.5204-11 Changes (APR 1984) and I.60 List B Directives. In accordance with BBWI transmittal "Revised Request for Approval of Baseline Change Proposal (BCP) AMWTP-09-B0205 Rev. 1 – Capital Projects Maintenance and Improvement, dated April 25, 2008. \$3.1M will be available for the subject BCP, which includes \$175K to process off-site waste. A prioritization of recommended projects is included as part of this modification. BBWI shall implement cost saving measures for the recommended projects to earn total fee. Upon successful completion of items 1-15, the total fee of \$226,191 will be considered earned. The proposed fee is inclusive of the \$3.1M.

#### **Recommended Projects (in descending order of priority):**

##### **1. WMF-635 Propane Heating System**

The WMF-635 heating system needs to be retrofitted with a propane-fired heating system in order to free up sufficient electrical power to support operation of the WMF-635 Drum Repackaging tent. Operation of the WMF-635 Drum Repackaging tent is needed by "no-later-than October 2008 but preferably September 2008" to support preparations for receiving offsite CH-TRU waste in November 2008. The electrical resistance heating system will be electrically-isolated to support this effort, but the system will remain in-place as a backup should something go wrong and the fire suppression system in WMF-635 becomes susceptible to freezing. (BBWI portion of the RWMC electrical upgrade.)

##### **2. BOGR Replacement**

The Box Opening Gantry Robot (BOGR) is a single point failure for boxes entering the AMWTF who's mechanical and software components are obsolete and need to be replaced. The only contingency for an extended BOGR failure is to manually open boxes in-cell. Prolonged use of manually opening boxes is not in accordance with ALARA principles. The scope of this project includes completion of all design, procurement, factory testing and delivery. Actual installation may, or may not occur during the present contract.

[Note: per draft PMP, Rev. 11E, "any impact to production should be minimal provided alternative lid cutting methods are available. The outage is projected to last about two

weeks.” However, BBWI has since provided additional information based on a site visit by PAR Systems who listed installation time as “3 weeks, 6 days/week, 24 hours/day based on replacing the controller, cabling, motor and software.” That installation time did not include lead time for procurement (9 months) or mobilization time (no estimate available at this time).] (5.17.500)

### **3. Engineering Analysis/Development of Procurement Package for Oversized Box Processing**

Project lacks capability to process oversized boxes. This activity will analyze alternative approaches (including use of existing capabilities across the complex such as the repackaging facility at NTS) and prepare a procurement package (including design specifications and design proposal drawings).

### **4. Required Updates for Security Access**

Current access system (hardware & software) is obsolete and needs to be replaced. Security upgrade required by Presidential Directive Homeland Security HSPD-12. BEA will procure and install the new system under contract to BBWI – which will ensure the system will be compatible with rest of the site.

### **5. NDA Software Upgrades**

Non-Destructive Assay (NDA) software can no longer be supported and must be upgraded. It is anticipated the manufacturer of the assay equipment, AREVA (formally known as Canberra), will develop and install the software upgrade.

### **6. Drum Core PLC Replacement**

Drum core Programmable Logic Controller (PLC) software is obsolete and can no longer be supported. Software needs to be replaced.

### **7. 615 Drum Vent Control System PLC Replacement**

Drum vent Programmable Logic Controller (PLC) software is obsolete and can no longer be supported. Software needs to be replaced.

### **8. Ice Protection Improvements**

The winter of 2007-2008 revealed that there are several building entryways that need to be modified for personnel safety. The accumulation of snow and ice from sloped roofs results in ice-covered walkways and steps, as well as a hazard from falling ice. The south entrance to WMF-634 and three entryways on WMF-636 (TSA-RE) require a protective structure. The WMF-634 structure will also give protection to the North entrance to the adjacent WMF-691 buildings. During the winter months AMWTP is subjects to adverse

weather from Snow and Ice buildup as well as Sleet Storms. All Areas are subject to extreme freeze thaw cycles that create hazardous falling ice and snow problems. The falling pieces will vary in size and weight and can fall without warning. To manually remove this buildup of snow and ice the Landlords have to use lift equipment or work from a slippery roof top. OSHA's Fall Protection program, "Protection from falling Objects" requires that we mitigate the Falling Material Hazards or prohibit Employees from entering the area. Both of these locations are very actively being used throughout the year and restricting these man-doors would impact production.

#### **9. 634 Assay Control Room Upgrade**

The electronic equipment in the control room in the northeast corner of WMF-634 is subjected to excessive dust and temperatures that leads to premature failure of the equipment and downtime estimated at more than 20 days per year. Three computer servers, costing over \$15,000, failed in the last year alone. In addition, operators sometimes have to leave the door to the room open in order to get enough ventilation (which exacerbates the problem). DOE identified in surveillance #ISS-EM-5/22/2008-17774 (pg 19) this situation was inadequate and needed to be addressed. The scope of this project is to modify the room as needed to provide adequate ventilation for the operators and sufficient cooling for the electrical equipment.

#### **10. Spare Parts**

The following spare parts are needed based on operational history in order to avoid prolonged down-times.

- a) Shredder Hydraulic motor
- b) Brokk Shear Tool
- c) Brokk Clamshell

#### **11. Main Gate Replacement**

The main gate entrance at the AMWTP was originally designed to support construction of the AMWTF. Operational requirements have changed and the gate is now considered to be the primary access point for the entire project. The gate must be available 24/7 and continuous maintenance on the gate has been able to sustain operations until now. The drive mechanism of the gate recently failed. The gate is now considered beyond repair and must be replaced. The scope of this project is to procure and install a new gate, a new gate actuator, a new track for the gate, removal of the old concrete footers and installation of new concrete footers for mounting posts. If approval to start the project is not received soon, the contractor will not be able to pour concrete this fall (without incurring additional costs) and AMWTP would continue to be impacted until spring.

## **12. Propane Vaporizer Weather Enclosure**

The past winter revealed the propane vaporizer was not adequately protected from snow accumulation that repeatedly disabled it. Snow build up extinguishes the vaporizer burners due to lack of oxygen. WMF-634 loses heating when the vaporizer shuts down which, if left uncorrected, could damage the fire protection sprinkler system; therefore, a weather enclosure is needed to keep snow from building up.

## **13. Vertical Air-Lock Door Replacement**

An engineering analysis was performed on the Air-Lock doors to identify all of the causes for the operational problems experienced to date. This analysis was documented in an Engineering Design File (EDF)-0265, "Vertical Airlock Doors Defect Investigation". In addition, operating requirements have changed whereby the design requirements for the doors have been reduced by a factor of 10 (from -2.0 inches of water to -0.2 inches of water). The EDF took into account the changes in the design requirements and the problems experienced to date and recommended modifying or replacing specific elements of the door system (guide rail system, moving door panel, drive system and sensors) in order to improve performance and reliability. Based on the EDF recommendation, BBWI completed a new design to lighten the doors and improve reliability. The scope of this project is to manufacture and install a total of four Air-Lock doors (2 sets of 2 doors each) to ensure the new design has eliminated all of the current problems. If the design proves to be adequate, then the contractor will subsequently fund replacement of the remaining six doors.

## **14. Additional Spare Parts**

The following additional spare parts are needed based on operational history in order to avoid prolonged down-times. These spare parts are in addition to the spare parts listed under priority # 10 above.

- a) Shredder Hydraulic motor (2nd on-site spare)
- b) HVAC VFD Replacement/Upgrade

## **15. Air Conditioning Improvements**

Several air conditioning units around the AMWTP have exceeded their life span and are costing more to maintain than it will cost to replace them. Replacing the older units with more energy efficient units (with a higher SEER) is in accordance with DOE-O-430.2b, Departmental Energy, Renewable Energy and Transportation Management. The scope of this project is to replace (9) units at an estimated cost of \$3,500 per unit.

(End of Modification M172)